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NOTICE OF ALLOWANCE AND FEE(S) DUE

23117

7590

12/08/2008

NIXON & VANDERHYE, PC 901 NORTH GLEBE ROAD, 11TH FLOOR ARLINGTON, VA 22203

| EXAMINER | | | | |
|-----------|--------------|--|--|--|
| LE, HOA T | | | | |
| ART UNIT | PAPER NUMBER | | | |
| 1794 | • | | | |

DATE MAILED: 12/08/2008

| | APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-----------------|-------------|----------------------|---------------------|------------------|
| • | 10/553,260 | 11/08/2006 | Charles Mioskowski | BJS-1721-100 | 1828 |

TITLE OF INVENTION: MACROMOLECULES AUTO-ASSEMBLED AND PHOTOPOLYMERISED AROUND CARBON NANOTUBES, A METHOD

FOR PRODUCTION AND APPLICATION THEREOF

| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE FEE | TOTAL FEE(S) DUE | DATE DUE |
|----------------|--------------|---------------|---------------------|----------------------|------------------|------------|
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 03/09/2009 |

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where

| appropriate. All further indicated unless corrected maintenance fee notifical | correspondence includir ed below or directed oth | ng the Patent, advance on herwise in Block 1, by (a | rders and notification of na) specifying a new corres | naintenance fees wil | l be mailed to the current and/or (b) indicating a separate | correspondence address as arate "FEE ADDRESS" for |
|---|--|---|--|--|---|--|
| CURRENT CORRESPONDI | ENCE ADDRESS (Note: Use Bl | ock 1 for any change of address) | Fee(| s) Transmittal. This ers, Each additional i | certificate cannot be used t | or domestic mailings of the for any other accompanying ent or formal drawing, must |
| | 7590 12/08 NDERHYE, PC LEBE ROAD, 11TH VA 22203 | | I her State addr trans | Certify that this es Postal Service wit essed to the Mail smitted to the USPTO | ficate of Mailing or Trans Fee(s) Transmittal is being h sufficient postage for fir Stop ISSUE FEE address O (571) 273-2885, on the d | smission g deposited with the United st class mail in an envelope above, or being facsimile late indicated below. |
| | | | | | | (Depositor's name) |
| | | | | | | (Signature) |
| | | | | | | (Date) |
| APPLICATION NO. | FILING DATE | | FIRST NAMED INVENTOR | P | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
| 10/553,260 | 11/08/2006 | | Charles Mioskowski | | BJS-1721-100 | 1828 |
| FOR PRODUCTION AN | : MACROMOLECULE: ND APPLICATION THE | EREOF | AND PHOTOPOLYMER | | | МЕТНОО |
| APPLN. TYPE | SMALL ENTITY | ISSUE FEE DUE | PUBLICATION FEE DUE | PREV. PAID ISSUE | FEE TOTAL FEE(S) DUE | DATE DUE |
| nonprovisional | NO | \$1510 | \$300 | \$0 | \$1810 | 03/09/2009 |
| EXAM | IINER | ART UNIT | CLASS-SUBCLASS | | | |
| LE, H | | 1794 | 428-407000 | | | |
| 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for | | | | | | |
| recordation as set forti (A) NAME OF ASSIG | h in 37 CFR 3.11. Comp GNEE | oletion of this form is NO | T a substitute for filing an : (B) RESIDENCE: (CITY | assignment. and STATE OR CC | OUNTRY) | |
| Please check the appropriate assignee category or categories (will not be printed on the patent): | | | | | previously paid issue fee | shown above) |
| a. Applicant claim | tus (from status indicated | is. See 37 CFR 1.27. | b. Applicant is no long | ger claiming SMALL | ENTITY status. See 37 C | FR 1.27(g)(2). |
| NOTE: The Issue Fee and nterest as shown by the I | d Publication Fee (if requeecords of the United Sta | uired) will not be accepted tes Patent and Trademark | a trom anyone other than the Office. | he applicant; a regist | ered attorney or agent; or the | he assignee or other party in |
| Authorized Signature | | | | Date | | |
| Typed or printed name | e | | | Registration No | | |
| in application. Confident submitting the completed his form and/or suggesti | tiality is governed by 35 d application form to the ions for reducing this but | U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the | 1.14. This collection is est depending upon the indiverse Chief Information Office | imated to take 12 mi idual case. Any com cr. U.S. Patent and Ti | nutes to complete, including ments on the amount of ti- rademark Office, U.S. Dep | d by the USPTO to process) ng gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450, |

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| | | | 1794 | | |
| | | | DATE MAILED; 12/08/2008 | | |

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

| | Application No. | Applicant(s) | | | |
|---|--|---|--|--|--|
| | 10/553,260 | MIOSKOWSKI ET AL. | | | |
| Notice of Allowability | Examiner | Art Unit | | | |
| | H. (Holly) T. Le | 1794 | | | |
| The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI | (OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to | olication. If not included will be mailed in due course. THIS | | | |
| 1. This communication is responsive to <u>Amendment filed Nov</u> | <u>r. 25, 2008</u> . | | | | |
| 2. X The allowed claim(s) is/are <u>1-10,12-14,16 and 17</u> . | | | | | |
| 3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: | been received. been received in Application No | | | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | | | | |
| A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give | | | | | |
| 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the deponsion of the depons | on's Patent Drawing Review (PTO-9 s Amendment / Comment or in the O .84(c)) should be written on the drawing the header according to 37 CFR 1.121(c | office action of ngs in the front (not the back) of nust be submitted. Note the | | | |
| Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☑ Examiner's Comment Regarding Requirement for Deposit of Biological Material | 5. ☐ Notice of Informal Pa 6. ☐ Interview Summary Paper No./Mail Dat 7. ☑ Examiner's Amendn 8. ☑ Examiner's Stateme 9. ☐ Other | (PTO-413), e | | | |
| | | | | | |

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Art Unit: 1794

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Applicant's Representative, B. J. Sadoff on December 4, 2008.

2. The application has been amended as follows:

Claim 1, line 2 and line 3, "nanotubes" has been changed to: -- carbon nanotubes --.

End of Amendment.

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REASONS FOR ALLOWANCE

- 3. The following is an examiner's statement of reasons for allowance: None of the prior art references of record, singly or combined, teaches or suggests a structure comprising rings of polymerized lipid compounds surrounding carbon nanotubes wherein the lipid compounds have the structural formulas as claimed. Additionally, there is no prior art teaching method of making such structure and/or manipulation of such structure to form nanotubes of similar sizes or vectors for membrane proteins. Some references teach a dispersion of nanotubes in lipid compound (e.g. USP 7,244,499) or nanotubes being enclosed in a liposome (e.g. US 2005/0214356), but not nanotubes being surrounded by rings of polymerized lipid as claimed.
- 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to H. (Holly) T. Le whose telephone number is 571-272-1511. The examiner can normally be reached on 12:30 a.m. to 9:00 p.m. (EST), Mondays to Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rena Dye can be reached on 571-272-3186. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Art Unit: 1794

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/H. (Holly) T. Le/ Primary Examiner, Art Unit 1794

December 4, 2008